	Application No.	Applicant(s)
Notice of Allowability	20/504 405	
	09/531,135 Examiner	WATANABE, TOHRU Art Unit
	Justin P. Misleh	2622
The MAILING DATE of this communication appear All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in the or other appropriate communication. This application is sub-	nis application. If not included cation will be mailed in due course. THIS
1. \boxtimes This communication is responsive to <u>Amendment filed Ma</u>	<u>y 1, 2006</u> .	
2. \boxtimes The allowed claim(s) is/are $\underline{1-11}$.		
3. Acknowledgment is made of a claim for foreign priority un	nder 35 U.S.C. § 119(a)-(d) or	(f) .
a) ⊠ All b) ☐ Some* c) ☐ None of the:		
1. 🛛 Certified copies of the priority documents have been received.		
2. Certified copies of the priority documents have been received in Application No		
3. Copies of the certified copies of the priority documents have been received in this national stage application from the		
International Bureau (PCT Rule 17.2(a)).		
* Certified copies not received:		
Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		
4. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.		
5. CORRECTED DRAWINGS (as "replacement sheets") must be submitted.		
(a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached		
1) 🔲 hereto or 2) 🔲 to Paper No./Mail Date		
(b) ☐ including changes required by the attached Examiner' Paper No./Mail Date	s Amendment / Comment or in	the Office action of
Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).		
6. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.		
Attachment(s) 1. ☑ Notice of References Cited (PTO-892)	5 □ Notice of Infor	mal Patent Application (PTO-152)
2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)	6. Interview Sum	
3. Information Disclosure Statements (PTO-1449 or PTO/SB/0 Paper No./Mail Date		mendment/Comment
Examiner's Comment Regarding Requirement for Deposit of Biological Material	8. 🛛 Examiner's St	atement of Reasons for Allowance
	9. Other	1/2
		VIVEK SRIVASTAVA

DETAILED ACTION

Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on May 1, 2006 has been entered.

Allowable Subject Matter

- 2. Claims 1 11 are allowed.
- 3. The following is an Examiner's statement of reasons for allowance:

While the closest prior art discusses the particulars of the solid-state image pickup apparatus including first and second light receiving pixels, the independent accumulation of charge in the first and second light receiving pixels, the independent storage of charge of the accumulated first and second light receiving pixels, and the summing of the stored and accumulated charges of the first and second light receiving pixels;

The closest prior art does not teach or fairly suggest

(a) wherein the duration of charge accumulation of charges in the second light receiving pixel spans the two durations of charge accumulation in the first light receiving pixel, such that at the end of the first of the two durations of charge accumulation in the first light receiving pixel the first accumulated charges are added to the charges continuously accumulating

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in the second light receiving pixel and at the end of the second of the two durations of charge accumulation in the first light receiving pixel the second accumulated charges are added to the previous addition of first accumulated charges and the continuously accumulated of the first and second light receiving pixels, respectively;

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(b) calculating a vertical transfer smear component on the basis of a ratio of said respective accumulation times of information charges at said first and second light receiving pixels and of a difference of said first and second outputs corresponding to said first and second light receiving pixels;

(c) calculating a smear quantity generated during vertical transfer of said information charges on the basis of a ratio of said respective accumulation times of said information charges at said first and second light receiving pixels and of said first output and said second output; and

(d) calculating smear quantity generated during vertical transfer of said information charges on the basis of a ratio of said respective accumulation times of said information charges at said first and second light receiving pixels and of said first output and said second output.

4. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

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Conclusion

5. Any inquiry concerning this communication or earlier communications from the Examiner should be directed to Justin P Misleh whose telephone number is 571.272.7313. The Examiner can normally be reached on Monday through Friday from 8:00 AM to 5:00 PM.

If attempts to reach the Examiner by telephone are unsuccessful, the Examiner's supervisor, Vivek Srivastava can be reached on 571.272.7304. The fax phone number for the organization where this application or proceeding is assigned is 571.273.3000.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

JPM

August 5, 2006

VIVEK SRIVASTAVA
PRIMARY EXAMINER